## IN THE CLAIMS:

1. (Cancelled)

- 2. (Currently Amended) A method of providing conferencing resources in an expandable telecommunications system having a plurality of nodes, and a host coupled to at least one node for controlling the system in which conferencing resources are utilized by one or more nodes participating in a conference, the method including the steps of:
  - (A) providing the plurality of nodes with means for connecting and disconnecting communications paths between a plurality of ports having digital network/line interfaces that couple the node with the PSTN [[and/or]]and private networks, said nodes including switching nodes that can switch communications to any port connected to the system, and at least two of said switching nodes being conferencing nodes, said conferencing nodes including individual digital signal processing (DSP) circuits programmed to perform a conference between three or more participants who are callers connected at any port in the system, and said switching nodes having switching buses on which that node is assigned time slots for transmitting and receiving data and control information and said switching nodes being connected in communicating relationship by an inter-nodal network;
  - (B) defining a requested conference as being of one of a dynamic conference type, a critical conference type and a static conference type;
  - (C) identifying the DSP circuit within a conferencing node that has available resources for performing a conferencing function for a conference of that type as requested in the system; and
  - (D) after said DSP circuit has been identified, determining whether the node in which said identified DSP circuit is located has sufficient available time slots on its switching bus to manage the data to and from all of the participants in the requested conference.

## PATENTS 104005-0111

- 1 3. (Previously Presented) The method of providing conferencing resources as de-
- 2 fined in claim 2, including the further step of employing statistical analysis to determine
- 3 conference type.
- 4. (Previously Presented) The method of providing conferencing services as defined
- in claim 3, including the further step of using historical data about past system conference
- behavior in said statistical analysis to predict conference type.
- 5. (Previously Presented) The method of providing conferencing resources as de-
- 2 fined in claim 2, including the further step of employing user-defined parameters to de-
- 3 termine conference type.
- 6. (Previously Presented) The method of providing conferencing resources as de-
- fined in claim 2, including the further step of using historical information about an aver-
- age conference generally handled by a particular system and handled at a particular port
- 4 to predict conference type.
- 7. (Previously Presented) The method of providing conferencing services as defined
- in claim 2, including the further step of defining as said dynamic conference a conference
- that is likely to change in size based upon predetermined criteria.
- 8. (Previously Presented) The method of providing conferencing services as defined
- in claim 7, including the further step of assigning the DSP circuit card having the maxi-
- mum available capacity to a conference which has been identified as a dynamic confer-
- 4 ence.
- 9. (Previously Presented) The method of providing conferencing services as defined
- in claim 8, including the further step of selecting for a dynamic conference the DSP cir-
- cuit in the system having as many channels as possible such that a conference can grow

- as large as possible and that channels remain available for participants who join the con-
- 5 ference while in progress.
- 1 10. (Previously Presented) The method of providing conferencing services as defined
- in claim 2 including the further step of defining as said critical conference a conference
- that requires the maximum opportunity for growth in the system.
- 1 11. (Previously Presented) The method of providing conferencing services as defined
- in claim 10 including the further step of selecting, for a critical conference, the DSP cir-
- cuit with the maximum available capacity and instructing the DSP circuit with said
- 4 maximum available capacity to resolve these conference resources and to establish the
- conference, and further instructing the DSP circuit to block other conferences from being
- assigned to that DSP circuit such that capacity remains available for that critical confer-
- 7 ence, for the life of that critical conference.
- 1 12. (Previously Presented) The method of providing conferencing services as defined
- 2 in claim 11 including the further step of revealing blocked channels for use by the DSP
- circuit, after the critical conference is finished.
- 1 13. (Previously Presented) The method of providing conferencing services as defined
- in claim 2, including the further step of defining as said static conference a conference in
- which the number of participants will remain substantially constant.

## PATENTS 104005-0111

- 14. (Previously Presented) The method of providing conferencing services as defined ı in claim 13, including the further step of assigning a static conference to a DSP circuit on 2 a "best fit" basis. 3 (Previously Presented) The method of providing conferencing services as defined in 4 claim 2, the method including the steps of: 5 (A) providing said telecommunications system with a line-to-switch 6 (LSD) data bus comprised of multiple individual bus conductors, each bus conductor 7 carrying time slots coming into the node from line cards, including T1 line cards, and ġ
- the node back out to a destination line card; and

  (B) identifying a zone of time slots having the lowest order of allocation such that it is least likely to be taken when a new T1 card is inserted into the system
  during operation, and assigning a conferencing node to use these lowest order of allocation time slots for a requested conference.

said system further including a switch-to-line (SLD) data bus comprised of multiple indi-

vidual bus conductors that carry time slots of PCM-encoded data from a nodal switch in

- 1 16. (Previously Presented) The method of providing conferencing resources as de-2 fined in claim 15, including the step of:
- 3 (a) allocating zones of time slots in such a manner that 192 time slots of a T1
  4 span are divided into the following segments:
- time slots 0-191 are in the regular T1 channel;
- time slots 192-215 are the lower dead zone;

9

10

10

- time slots 216-223 are in the lower small dead zone;
- time slots 224-247 are in the upper large dead zone; and
- time slots 248-255 are in the upper small dead zone; and
  - (b) assigning time slots in the lower and upper small dead zones of the individual bus conductors to conferences.

17. (Currently Amended) An expandable telecommunications system having means 1 for conferencing three or more participants interfaced with the system the system com-2 prising, 3 (A) a plurality of nodes for performing telecommunications switching, each of said switching nodes including means for dynamically connecting or disconnecting 5 communication paths with respect to various ones of a plurality of ports, means for time 6 switching information to or from said ports, means for coupling the node with the PSTN 7 [[and/or]] and private networks via digital network/line interfaces, said nodes including 8 switching nodes that can switch communications to any port connected to the system via 9 the PSTN and private networks, and means for transmitting and receiving information in 10 packetized forms, and means connected in communicating relationships including a bus 11 for carrying data to and from said ports; 12 (B) a host connected in communicating relationship with at least one of said 13 switching nodes, said host controlling predetermined operations of the system; 14 (C) means in said switching nodes for generating and sending a message request-15 ing establishment of a conference call for at least three conferees connected to one or 16 17 more of said nodes; (D) means for interconnecting said switching nodes in communicating relation-18 ships and operable in conjunction with said transmitting and receiving means to transfer 19 said packetized information such that information which originates from any port in the 20 switching nodes is substantially continuously communicable to any node interfaced with 21 said interconnecting means; 22 (E) at least one conferencing node for providing conferencing services, said at 23 least one conferencing node interfaced with said interconnecting means and including 24 individual DSP circuits; and 25 (F) means for allocating conferencing resources including: 26

node has available conferencing resources to perform a requested conference; and

means for determining whether a DSP circuit in a conferencing

1.

27

- 29 2. means for determining whether the conferencing node has suffi30 cient available time slots on its switching buses to manage the data to and from the con31 ferences or a particular requested conference.

  1 18. (Previously Presented) The expandable telecommunications system as defined in
- 18. (Previously Presented) The expandable telecommunications system as defined in claim 17 further comprising:
- A. a DSP card in said conferencing node, including:
  - 1. a DSP module which contains a plurality of DSP circuits; and
- 5 2. a CPU including means for receiving messages about conferences
- 6 to be established, and means for routing voice information to a DSP chip identified for a
- 7 particular conference; and

- B. line-to-switch (LSD) data bus interfaced with line cards which connect
- ports in the system, and which carries a PCM-encoded voice information from the line
- cards to said DSP cards.
- 19. (Previously Presented) The expandable telecommunications system as de-
- 2 fined in claim 18 wherein said voice information for paid conference arrives at a port
- 3 coupled with one or more of the following:
- a. a landline telephone;
- b. the PSTN;
- 6 c. a private network;
- d. a wireless network; and
- e. the Internet.